



THE TECH

Vol. 23 No. 1.

October 8, 1903.

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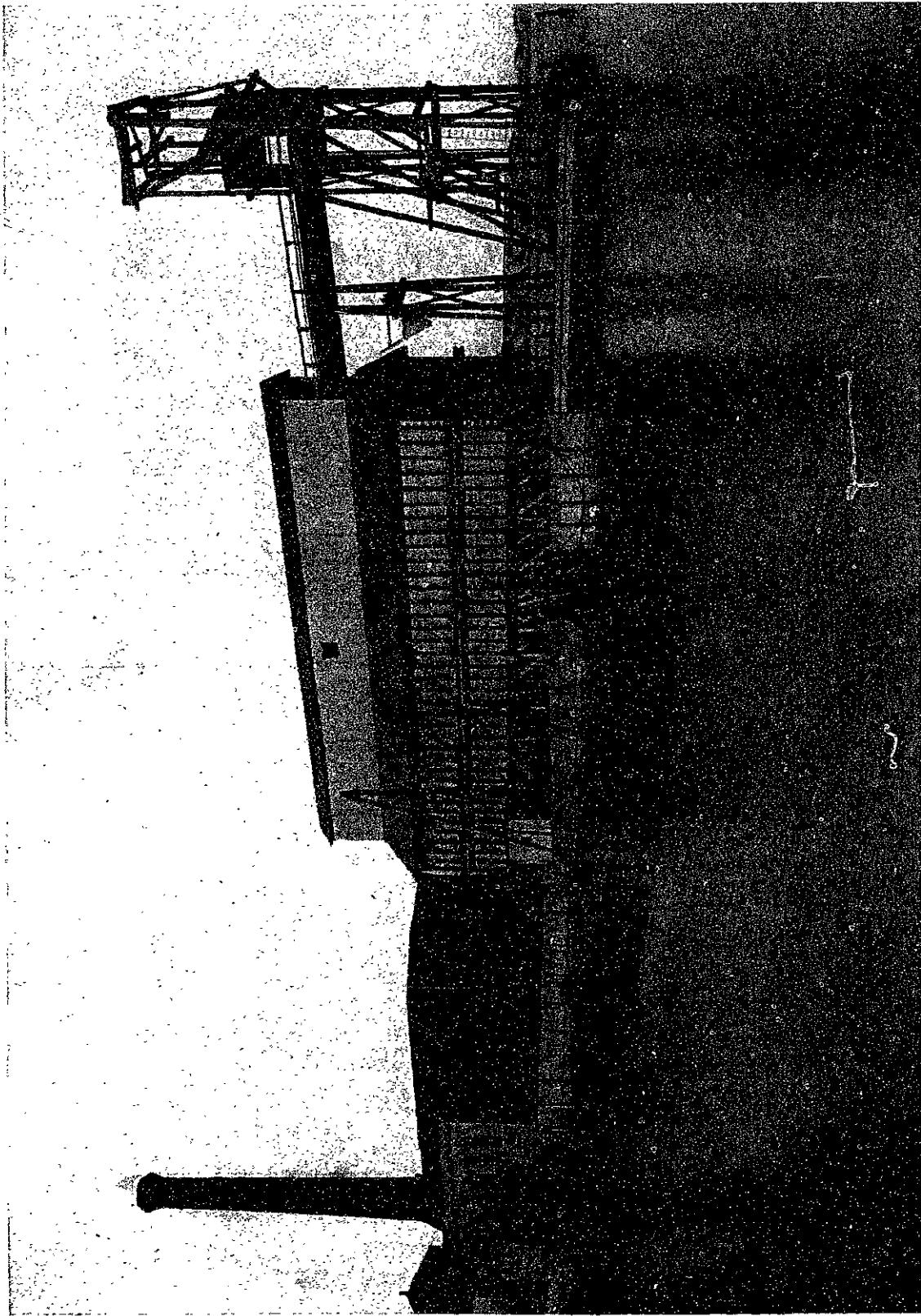
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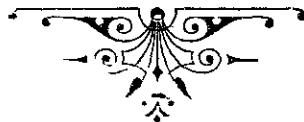
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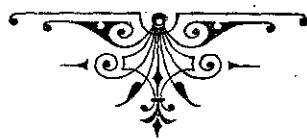
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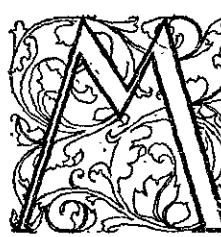
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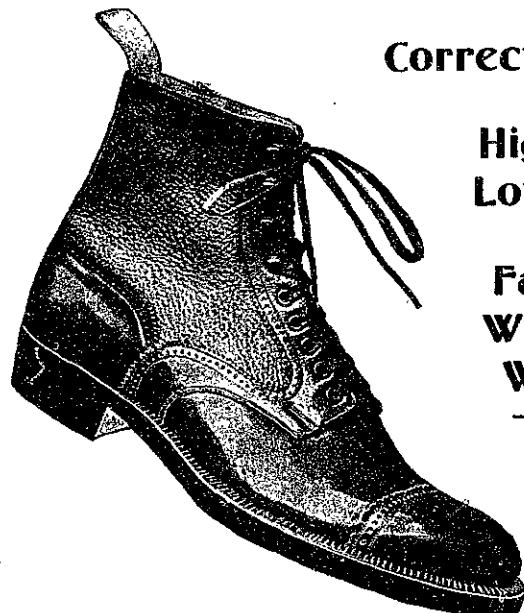
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THE TECH

VOL. XXIII.

BOSTON, OCTOBER 8, 1903.

NO. 1.

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

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OFFICE HOURS:

Editor-in-Chief : Monday, 10-11 A.M.
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For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

All communications with the Alumni Department should be addressed to the Alumni Editor.

Subscription, \$1.00 per year, in advance. Single copies, 5 cts.

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STUDENT ACTIVITIES.

HERE can be no doubt that Tech is furnishing enough to interest her students this fall. The Sophomores and Freshmen each will have three teams in the field and our track team is to work under Coach Mahan's direction another year. His efforts of past years have forced Tech well into the front rank in track work among the colleges of the N. E. I. A. A., and the undergraduates have every hope that Tech will be the front rank this year. The indoor meet will bring out the men who are to compose the track squad. The Cross Country Team has an ambitious schedule and is already occupying the attention of a number of the runners and, despite the loss of some men, will turn out a strong lot of men.

Those of literary tastes have every opportunity in working for the Show, as the opera for this year has not been decided upon. A complete libretto must be supplied and the musical men have a good chance to write the score. The Chess Club will shortly form a team and the Golf Club has taken steps toward representing Tech along this line, having received a challenge from Brown thus early in the school year. The artistic men may find occupation in work for *Technique*, as was stated last year — work from men outside of 1905 being very welcome. Altogether, it seems that nearly every student should find some work in which to interest himself for the coming year and with which to relieve the monotony of study — the busy man is the happy man.

TECH FIELD DAY: TO THE FRESHMEN.

HERE is no need to tell the old students what Field Day is and what it means, but the new comers can not be supposed to understand it. The contest, which will come on November 7, is for the honor of having the Class numerals and the date engraved on the cup given two years ago for this purpose. Each of the contesting classes puts in the field three teams, football, relay (twelve men) and tug-of-war (twenty-five men); the winner of the football game scores four points, of the relay race, three points, and of the tug, two points. Already training has begun for the football teams and there seems no reason why teams, equal, if not superior to those of previous years, should not result.

We cannot instil into the two lower classes too great a spirit of contention, so long as that spirit is gentlemanly and worthy of Tech. It is the duty of every man in 1906 and 1907 to work to make Field Day 1903 the success that it was in 1901 and 1902.

Changes in Instructing Staff.

An unusual number of changes in the instructing staff have taken place during the summer recess. While most of these changes are among the ranks of assistants and instructors, there are several among the professors. Many men accept these positions for one or two years on account of the invaluable experience gained, and then leave for positions in business or professional life.

Professor Linus Faunce, who was for eighteen years head of the department of mechanical drawing, has resigned, and the work of that department will hereafter be conducted under the general supervision of Dean Burton, while the actual charge of the department will be with Prof. Charles L. Adams, who has been connected with its work for a time. Dr. James Locke, who came to the Institute a little over a year ago from Yale, has found it necessary to give up his work, owing to ill health. Dr. Theodore Hough, for many years associated with the department of biology, has left to accept a professorship in Simmons College, while Dr. W. Skarstrom, who was in charge of the work in physical culture, leaves to go to Columbia University.

Following is a list of the new members of the instructing staff who were officially appointed at the last meeting of the Executive Committee: Messrs. D. A. Allee and John W. Howard, as assistants in civil engineering; Messrs. Walter H. Adams, Edward J. Ruxton, George M. McDonald, Henry H. Fales, Howard S. Morse, John T. Alden and Theodore H. Taft, as assistants in mechanical engineering; Messrs. Durward W. Copeland, Carleton F. Green, Harry R. Low and George W. Swett, as assistants in mining engineering and metallurgy; Messrs. Leslie R. Moore, Arthur A. Blanchard and Livingston W. Smith, as instructors in inorganic chemistry; Mr. John R. Odell, as assistant in analytical chemistry; Mr. J. W. J. Calnan, as assistant in inorganic chemistry, and Dr. Richard B. Earle, as assistant in organic chemistry; Mr. Harold Osborn, as assistant in electrical testing; Messrs. Frank B. Jewett and William O. Sawtelle, as instructors in physics; Messrs. Robinson Pierce, Jr., Eugene D. Forbes and William H. Whitcomb, as assistants in physics, and Mr. Henry W. Buhler, as assistant in heat measurements; Dr. Percy G. Styles, who comes to the Institute from the Bellevue Medical School, succeeds Dr. Hough as instructor in physiology and personal hygiene; Gerald F. Loughlin, as assistant in geology; Harold A. Everett, as assistant in naval architecture; Messrs. Wilfred E. McDonald and Burton H. Camp, as instructors in mathematics; Mr. Charles H. L. Johnston, as assistant in English; Mr. Frank A. Brown, as assistant in forging; Messrs. Eugene S. Foljambe and James R. Putnam, as instructors in mechanical drawing and descriptive

geometry, and Mr. John A. French, Jr., as assistant in mechanical drawing; Mr. Winfield C. Towne, as instructor in gymnastics, and Mr. Claude S. Hudson, as research assistant and physical chemistry.

The Honor System.

At a meeting of the Institution Committee held sometime during the second term of last year, it was decided to investigate the matter of Honor Systems in examinations as practised in some colleges, with a view of determining whether or not it would be practicable to introduce such a system in the senior class of the Institute.

An honor system of examinations is a system doing away with all supervision during examinations; it is one which places the student absolutely on his honor to use fair means only.

This system is now in vogue at Princeton, Williams and the University of Virginia, in all of which colleges it has been eminently successful. The foremost college furnishes an excellent example of its scope. Here the management of the honor system at Princeton is vested entirely in the hands of the undergraduates. At the beginning of each year this court publishes and distributes among the entering class printed slips, of which this is an exact copy.

THE HONOR SYSTEM.

Several years ago the students of Princeton, realizing that the standard of honor in examination was low, decided in a mass meeting to raise the standard by the adoption of what is known as the "Honor System."

This system places every man on his honor, and its rules provide for the summary punishment of any one who shall violate the trust reposed in him.

The movement to which the system owed its birth was eminently a students' movement, and from the very first the undergraduates have heartily sustained it. At intervals since its adoption the system has been put to thorough test, and in no instance has the student body failed to endorse the action of the committee of undergraduates having in charge the trial of offenders.

The substance of the "Honor System," the rules of which govern all examinations in the University, is as follows:

Every student is required, upon each of his examination papers, to sign the following pledge: "I pledge my honor as a gentleman that, during this examination, I have neither given nor received assistance."

This includes any unfair assistance that may be obtained at any time, such as the pilfering of question papers before examination, etc.

Any man accused of violating either the letter or

the spirit of the law will be tried before an undergraduate committee, consisting of the four class presidents and two other members, chosen, one from the Senior and one from the Junior Class.

If found guilty, he will be recommended to the faculty for *expulsion*.

The responsibility of keeping inviolate the "Honor System" rests with the students themselves, and it is only by the true realization of the responsibility that the system can be maintained. Therefore it is the duty of every man to report to the committee, regardless of any personal feelings which he may have in the matter, any offence which may come under his notice, and the man who fails in this is as truly an offender against the spirit of the system as the one who copies a "Crib."

Ever since its adoption, the "Honor System" has been eminently successful in accomplishing the purpose for which it was originated, *viz.*, to place examinations in Princeton on a perfectly honorable basis, and it remains for every student to do his share in maintaining this high standard.

* * *

A letter received by Mr. G. B. Harrington, Princeton, '02, now a senior at the M. I. T., from Mr. I. T., from Mr. Edwin M. Norris, associate editor of the Princeton Alumni weekly, contains the following significant paragraph:

"You will observe that the Princeton Honor System originated with the undergraduates themselves and was in its beginnings neither suggested nor influenced by any of the governing officials of the college in the Faculty or trustees. This I believe to be the essential feature and the reason for the unqualified success of the Princeton Honor System. At some of the other colleges where it has been tried, I have noticed that the students have been placed upon their honor by the Faculty, and if there have been failures of the system in such colleges it is doubtless due to the fact that the movement originated with the Faculty and not with the students themselves. I mention this because you doubtless will want to take advantage of it in any attempt you may make to introduce the system at the Massachusetts Institute of Technology."

From the data gathered, it appears that in all colleges where the "Honor System" has been successful, the following conditions hold true:

(1) The management of the "Honor System" is vested entirely in the hands of the undergraduates.

(2) Every man is made to sign a pledge on his examination paper, stating that he has not received undue assistance.

(3) There is a standing committee or court of undergraduates to see that the "Honor System" is not violated, and to meet the proper punishment when it is violated.

Considering these facts, the committee made the following suggestions:

That at the last meeting of the Institute Committee in the collegiate year 1902-03, a committee of four men and one chairman be appointed from the Class of 1904 by the president of the Institute Committee to determine in an effective way whether or not it would be advisable to attempt to establish the "Honor System" at the Massachusetts Institute of Technology.

That this committee meet to determine on a plan of action which could be for example, this:

To publish during the first week of the next collegiate year, printed slips stating the advantages of the "Honor System," and also to publish some form of pledge. To make it a point to interview personally every man in the Senior Class of next year, present him the printed slip and ask him if he is willing to sign a pledge of honor.

After a sufficient number of signatures have been thus obtained, to bring the matter up in class meeting and decide the question by vote of the class. If the question is decided in the affirmative, to see to the proper establishment of an undergraduate court, whose duty would be to manage the "Honor System" and settle all questions of violations. And lastly, to convey the will of the class to the Faculty and to use every means in their power to have a first trial of the "Honor System" made in the midyear examinations of the year 1904.

Acting on this suggestion, the Institute Committee appointed G. Bovscaren, Jr., G. Powell, G. Atkins, W. W. Cronin, Currier Lang, to carry out the measures recommended. There is no reason why the "Honor System" should not be a success at Tech, and we hope the Seniors will vote in favor of giving it a trial.

Calendar.

FRIDAY, Oct. 9.
1.15 P.M. TRACK TEAM MEETING, Room 26, Rogers. Election of Captain.

SATURDAY, Oct. 10.
12.00 M. FRESHMAN CLASS MEETING, Huntington Hall.

1.00 P.M. CLOSE OF NOMINATIONS for 1905 Class Officers.

1.45 P.M. FOOTBALL: 1907 vs. Dedham H. S. at Dedham. Candidates meet at Gym at above hour.

MONDAY, Oct. 12.
1.00 P.M. 1905 CLASS MEETING, Huntington Hall.

TUESDAY, Oct. 13.
7.45 P.M. TECHNOLOGY CLUB ANNUAL MEETING, followed by a "Smoke Talk" by Mr. Samuel Cabot, '70, on the subject of "A Word upon Ciphers to Those Who Dare Investigate."

WEDNESDAY, Oct. 14.
4.00 P.M. GEOLOGICAL JOURNAL CLUB MEETING.

6.30 P.M. DINNER OF FRESHMEN CLASS at Tech Union. Tickets (25c.) may be obtained from Mr. Powers in the Registrar's office.

PRESIDENT PRITCHETT'S WELCOME

THIS first coming together of the year is an occasion to which I find myself looking with increasing pleasure, since it brings together not only those who have newly come, but I am glad to see in increasing numbers each year the faces of students who have already had one or more years of life in the institution. It is this view of the familiar faces, perhaps, which makes me feel each year as if the student body is extending a welcome to me rather than receiving a greeting from me.

I think it would be hard to overestimate the value of these occasions which bring us all together. Sometimes I feel a little regret that the student body is growing so large that it can no longer get into Huntington Hall, but perhaps that can be remedied a little later by having a larger hall. In any case, these gatherings which we have from time to time through the year, help to give us more of a sense of solidarity, a more vivid realization of our own strength and our own unity, than perhaps any other occasions.

My pleasant duty to-day is rather to welcome the new comer than the older student, and I shall be more than pleased if anything I can say will help you to understand how hearty and cordial a welcome you have here, how thoroughly we desire that you shall find here that which you seek, and how ready the officers and the Faculty are to place at your disposal their time and their service.

I hope that you have already learned somewhat of this in the preliminary bulletins and announcements provided for students, and yet printed notices are so often overlooked that I venture to call attention particularly to the little pamphlet entitled, "General Information for New Students," and to the "Bulletin of Information," issued two days ago. You will find given there the hours when the officers of consultation may be conveniently found.

The Dean, who is the general consulting officer for students, has aimed to so arrange his hours as to suit the most varied wants of students. You will find in him not only an adviser but a friend. And I hope you will not overlook the announcement of the office hours of the Medical Adviser, Dr. White. He may be found in Room 13 of the Pierce Building, on Tuesday and Friday afternoons, between 4 and 5, and may be consulted by any student, free of cost.

He is himself a Technology graduate, and knows by experience the trials and the difficulties of student life. The Bursar you will find on hand each day, and presenting his bills with such grace and good-will that men have been known to pay their bills a second time, for the mere pleasure of meeting him.

I venture, as you are new comers, to call your attention to one single announcement in this little pamphlet ("General Information"), concerning the

conduct of students. We assume here that those who come to us come to take up their work man fashion, and that we may treat you as men. There are no fixed rules with which we ask your compliance. The injunction, "Be a gentleman," which is the rule in all the world, is all that we ask of men here. Now and then students have come to us who did not seem to understand that the obligations of a gentleman include absolute honesty in work, and this is one sin which we never forgive. No man can hope to be an engineer who will present as his own work that of another, and who will pass an examination by unfair means. Whenever we find such a one we ask him to leave.

As to the institution itself to which you have come, and of the life which you are to find there, I shall say only a word. You will learn it in your own way, and perhaps no word from me can help you in mastering its details. Life in the Institute means, first of all, as you have all heard, work—good, hard, honest work—and life in the world anywhere means work, if men are to be real factors in it. The capacity to work and the disposition to work are in a large measure the qualities which separate savage peoples from civilized peoples, and the work which you are to find here is no greater and no less in amount than that which you will be called to do in any avenue of life. I have tried it for three years and I like it well enough to hope that I may go through a fourth year without conditions, and look forward to a post-graduate course afterwards with feelings of unmixed pleasure.

But I should be sorry for you to gain the idea that life in the Institute of Technology stands for nothing else but work, if work is to be used in the narrow sense of application to the utilitarian objects of an education. The Institute is standing more and more each year, as all educational institutions must stand, if they do their real duty to society, not alone for scholarship, but for fellowship; and no man can hope to be an engineer in the greater sense who has not some actual contact, day by day and week by week, with his fellow-men. Whatever course of engineering you may take, whether you are to deal with electricity or chemistry or mechanics, you are to deal, first of all, all your life long, with men.

Various means exist in the Institute which look toward the cultivation of this social side, and yet which aim to preserve a due perspective in regard to more formal duties. The scientific societies which meet in the various courses serve as social groups, in which men meet each other. The Technology Club, which stands just opposite the Institute, on Newbury Street, includes a membership made up of the graduates and officers of the Institute, together with a certain number of students from the senior and junior classes. I hope as many of you

as can may find your way to its privileges and its associations. Last year was started, in modest rooms over the mechanical laboratories, what is perhaps the most democratic of all our efforts in this direction. That is what has come to be called the "Tech Union," which is nothing other than a suite of comfortable rooms, provided by the kindness of a few friends, in which Institute gatherings may be held, where a dinner may be partaken of at small cost, and where it is possible for the poorest as well as the richest student to spend a comfortable and joyous evening in the company of colleagues and teachers. For myself, I am impressed each year more and more with the fact that we Americans spend great sums of money, out of which we get very little pleasure. The ability to have a good time with small means and under simple surroundings is one which we need to cultivate, and in the Tech Union that opportunity is made easy. In the large sitting-room of the Union have just been placed two hundred of the new songbooks just issued at the close of last year, which I hope may serve to add to the sociable character of the place.

There are other agencies, which I will not take the time to mention minutely, which give our students the opportunity for intercourse and contact with those outside the Institute, which I hope you may avail yourselves of freely. And particularly let me commend to you as engineers, that you avail yourselves of frequent opportunity to "rub elbows" with working men. As engineers you must stand in direct contact with such men, and if we are ever in this country to work out the problem of right relations between employers and laborers, you men who are engineers must help to that solution. You stand between capital and labor; you give a hand to each. You ought to be able, if you are educated, broad-minded, sympathetic men, to understand that each of the parties in this dispute has rights which the other ought to respect, and that both have obligations to the public which they must in the end recognize and respond to; but they will be brought to recognize their mutual obligations and relations all the quicker if you men who are engineers can bring to the study of such problems an open mind, a judicial spirit and a sympathetic appreciation of the difficulties of each.

There is one project in the Institute, the immediate aim of which is the promotion of this sort of contact, about which I will say just one word. Within a quarter of an hour's walk of this building lies a tenement house district of the city of Boston, made up of 25,000 working people, factory hands, casual laborers, and the more poorly paid grades of clerks. It is a district almost barren of social influences and in which the ideals of people are being shaped more and more by ambitious leaders, who become unconsciously, not only political leaders but

moral leaders. In the midst of this district stands what is called "Tech House," a three-story brick building, fitted and equipped as a residence, in which a half dozen Institute students, sufficiently interested in the social and labor problems of the day to rub elbows with working men and working women, have their home. In addition to these six men who are daily coming into contact with the population of this region, there is need for several score of men, who can give an evening, or even an hour a week to some form of personal service. The men to volunteer are the men who can saw wood and show a group of small boys how to saw wood; men who understand the rudiments of telegraphy, who can make simple demonstrations in electricity for the edification of other men; steamfitters and engineers, or who can play ball or cricket or can do anything else to interest boys and men who have few wholesome interests in life and who will approach everything new without training and without discipline. Those of you who are willing to give an hour or an evening to such work will get your own reward in the knowledge of the real problems which concern the relations of capital and labor, which affect thrift and waste, and which have to do with the relations of the people themselves to politics.

I urge you all the more strongly to take some interest in these social matters, standing as we do in the midst of a great city, because the college education of to-day is being sharply criticized by business men and by others from this standpoint. The statement is made again and again that the college training of to-day develops the intellect, but not character, that it quickens a man's intellectual faculties, but does not enlarge his moral and social sympathies. If that is a just criticism, it is a most serious one, for I can assure you most frankly that if your scientific studies here furnish you no suggestions as to your relations with other men, if they do not connect themselves with the philosophy of life and of conduct, if they do not strengthen your moral purpose and help to clear your conception of truth and of duty and quicken your sympathies with other men, then you have got only the husks of an education.

I believe this criticism is one to be met most frankly and fairly, but personally I do not believe that the criticism is warranted in any large measure. On the other hand, there have been some very conspicuous failures in the business world, of recent date, for lack of that very intellectual and moral poise which an education ought to give. I do think, however, that many men who come to college and to technical schools fail to think out for themselves the reasons why they come, and fail to recognize, therefore, the opportunities before them and the objects which they may attain. There is no better thing for you to do at the beginning of your school year than to make clear to yourself the reason which brings

you here, the object you hope to attain, and the ideal toward which you are to work hereafter. Definiteness of aim means much. The paths which lead no whither may afford pleasant walking, but they can be followed safely only by those who think clearly. Our institutions of learning are giving, and I believe, in a greater and increasing degree, a larger play to those influences which look toward common helpfulness, and in this service of men for each other is to be found not only that which gives men power, but also that which keeps them hopeful and sane amid the discouragements of our national, social and municipal history. Only this kind of close view of men enables one to rise superior to that sort of discouragement which the constant observation of the small motives and of the weaknesses of humanity bring under every man's eye, and to see in all of this seeming chaos of selfish effort and personal ambition the gradual growth of better things and the sure, if slow development of the universal conscience of mankind. So if I may say to you a single word on your first day in the Institute, it is to remind you that character is above intellect, and to call your attention to the fact that the engineer of the next twenty years is to be called on for a vastly different service from that rendered by the engineer of to-day. Twenty years ago society demanded of the engineer very little beside technical skill. To-day technical skill is no less a *sine qua non*, but if a man is to be an engineer in the great sense, he must be able to deal not only with things but with men, and in order to be able to do this, he must keep his sympathies and his ideals fresh in college, as well as in every other experience of his active life.

And finally, I hope you will remember that the Dean, the Medical Adviser and the Bursar are not the only people who will be glad to see you. I shall hope to see as many of you as I may, in your gatherings of one sort or another. I shall hope to sit down with you at some modest dinners at the Tech Union, and I trust that you will all remember that my door is always open to a student, that you will do me the pleasure to come in and make my acquaintance, so that in the next four years I may come to know you not only as a class, but face to face.

Cross Country Team.

As will be seen by the call for candidates in another column, training will begin Friday for the Cross Country Team. This fall the team will meet Amherst and Dartmouth and probably will enter the Intercollegiate Championship C. C. race in New York on Thanksgiving Day. The prospects of Tech having

a winning team are very bright, even with the loss of four of our old men. One can readily see that owing to these vacancies there will be the best of opportunities for new men. Members of the team will be given their CTCs, and if Amherst or Dartmouth are defeated T's will be awarded to those who win. Beginning two weeks before first meet the men will live at the hotel, so as to have all the advantages of the training table, etc. This call for candidates refers to every man in the Institute and each man may be sure that every opportunity will be given him and that no partiality will be shown.

Co-operative Society.

That the Co-operative Society is gaining favor with the men is shown by the ready sale of membership tickets. On the opening days they were sold in Rogers Corridor, and may now be obtained at the co-operative stores. The small folders which were distributed explained the object of the Society and the work it is doing. Many Freshmen alone were supplied with drawing instruments at a lower cost than they could obtain them elsewhere.

Besides selling supplies at a low cost to the students, the Society enables its members to save many times the price of a ticket by means of its affiliated list of tradesmen.

The entire profits of the Society, including the sales from tickets, goes to the Scholarship Fund. Last year a number of men received sums ranging from \$75 to \$125; in all \$850 was given. In the past the men receiving benefits were not informed as to the source of their aid, but hereafter they will be told, as it is believed that it is fairer, not only to the Society, but to the men themselves.

It is the duty of every Tech man, whether Freshman or Senior, to obtain a co-operative ticket, not only for his own good, but also for the good that his money will do to some other student.

Y. M. C. A. Reception.

The reception tendered to the Freshman Class by the Y. M. C. A. of the Institute at Tech Union last Friday evening was the most successful ever undertaken. About two hundred and twenty-five persons were present, among them a large number of the instructing staff and upper class men.

President Bartlett welcomed the guests and extended the hospitalities in behalf of the Association. He introduced President Pritchett as the first speaker of the evening. Dr. Pritchett made a very characteristic speech, in which he urged the men to make each other's acquaintance, and not to be slow in availing themselves of the opportunities offered. Further, he explained the purpose of the Union, its meetings, dinners, and other social features. Lastly, he dwelt on the importance of the art of conversation, and advised all to cultivate this true accomplishment. Dr. Pritchett was followed by Hadley, '04, who explained to the Freshmen what work and fun meant at the Institute. Dr. McElveen was the next speaker. After an intensely witty introduction to his discourse, he urged the men to attend their church regularly, and in behalf of his fellow-clergy-men he extended a very cordial welcome. Professor Dwight Porter closed the evening's addresses by explaining the work of the Association at Tech.

After refreshments the men gathered round the piano and spent the rest of the evening singing from the new songbook. The evening was a very enjoyable one to every one present.

The First Convocation.

The First Convocation of the year was held in Huntington Hall at two o'clock, October 5, with Dr. Edward Everett Hale as the speaker. After the introductory remarks by Dr. Pritchett, during which he stated that he

was then meeting the students for the last time before leaving for several weeks in Berlin, Dr. Hale spoke on the great work the American scientific schools were doing, their graduates replacing foreign engineers and scientific men in American industries. His talk was enlivened by anecdotes and he closed by stating his three great principles for students such as he was then addressing: To live in the open air all that is possible; to rub elbows with the rank and file; to speak each day to some one you know to be your superior.

Material for Tech Show, 1904.

The management of The Tech Show request that all men who have prepared any material for the 1904 Show, or who intend to do so, will hand their names into Box 42, "Cage," immediately, in order that they may be notified of the first meeting of the board.

The management will be very glad to receive any ideas or suggestions in regard to the coming Show, and especially any original music or lyrics which might be incorporated into the play.

This year's play has not, as yet, been selected, and will, as stated last year, be chosen from the several ones submitted in competition by Tech men.

Even when the play is selected, there will be great opportunity to introduce original music and lyrics, and undergraduates with ability in this line will find a great opportunity.

Varsity Athletics.

Coach Mahan is back again to take charge of our Varsity teams. In him we have a good man, who knows his work, understands the conditions at Tech, and makes the most of both. Here's to him—may he turn out a team that will clean things up in the New England Meet this year. Meanwhile, let us give him our best support.

Electrical Engineering Society.

The first business meeting of the Electrical Engineering Society was held Monday, October 5, at 1.10 P.M.

The following were elected active members of the Society: C. E. Atwood, W. F. Becker, J. S. Bridges, Jr., F. W. Brownell, H. G. Cram, G. W. Eastman, H. B. Harvey, W. Hyde, W. W. Loomis, M. E. Weaver, C. B. Williams.

President Clingerman appointed the following committees: Executive, Vice-President J. C. Nyce, B. C. Mooers, and T. P. Bedford; Excursion, W. H. Eager, L. G. Bouscaren, and E. S. Morrison; Membership, C. R. Cary, G. Ford, and L. A. Russell.

President Clingerman announced that a club had been formed for the purpose of buying Forster's Electrical Engineering Handbook, and that Mr. Nyce and Mr. Sweetser would receive the names of members wishing to purchase the book.

At the next meeting excursions and joint meetings of the Society and the local branch, A. I. E. E., will be discussed.

Biology Research Laboratory.

During the past summer research work on sewerage has been going on by members of the biology department under Professor Sedgwick. Through the gift of a sum of money by an anonymous donor, it became possible to secure and maintain a station for this work on Albany street.

The work has been along two lines—improvements in chemical and bacteriological analysis of sewage, and the comparison and study of purification by means of septic tanks and contact filters. At present some of the Seniors in the sanitary engineering course are beginning investigations on bacteria concerned in sewerage purification, and the relation of oxygen in sewerage purification.

The work during the summer has been very successful and the members of the department are pleased with the results obtained.

Geology Journal Club.

A meeting of the Geology Journal Club was held last Monday. This club was organized for the purpose of becoming familiar with the latest literature and work on geology.

Professor Crosby related some incidents of his recent trip to Alaska. Mr. Shimer spoke on some recent discoveries in Greece and Northern Africa. The next meeting will be on Wednesday, October 14.

Technique, 1905, Notice.

It is absolutely essential to the success of *Technique*, 1905, that a good art staff be chosen and to this end every 1905 man who can draw at all should enter the competition, which will close not earlier than the last of October. A pen-and-ink and a wash drawing should be submitted, and, if possible, one in some other medium—distemper, crayon, colors, pyrography, etc. Further information can be obtained of William Green, Norman Lombard or George B. Jones, Art Committee.

Candidates for Cross Country Team.

A call is hereby given for candidates for the Varsity Cross Country Team. Report at the Gymnasium, Friday, October 9, at 4 P.M. Light training will begin then for the first meet, which will be held with Amherst October 31. We want to see every man in the Freshman Class out for this team, and of course, the old men and new men from the other classes are expected to be out.

E. H. LORENZ, *Captain*.
F. B. RILEY, *Manager*.



The annual rumor to the effect that Co-eds would not be permitted to enter the Freshman Class, has sprung up again. This rumor is entirely false.

Young men who are natives of Vermont will have the privileges of the Vermont Association extended to them upon the production, at the Secretary's office, Hotel Westminster, Copley Square, of satisfactory evidence that they are regularly enrolled as students at the Massachusetts Institute of Technology.

(Signed) N. L. SHELDON,
Secretary.

THE TECH wishes to call the attention of Freshmen to the custom prevalent here as well as elsewhere, that all such things as preparatory school numerals, insignia, caps, etc., are out of place in a college. They have served their time and should now be relegated to the shelf. Wear Tech numerals or none, unless you come from another college, and let the possession of a "T" be a thing to look forward to in athletics, and to be proud of when you get it.

Every Freshman should endeavor to be present at the Dinner at Tech Union, Wednesday, October 14. There will be a few Juniors there to explain Tech life and customs. After the advice of such men as President Pritchett and Dr. Edward Everett Hale, there is no need of THE TECH urging the benefit of such meetings of fellow students and fellow class men. Tickets may be obtained from Mr. Powers, in the Registrar's office.



'91. Miss Margaret E. Maltby, VIII., has been appointed Professor of Physics at Columbia University.

'01. F. H. Sexton III., has been appointed to an assistant professorship in mining engineering at Dalhousie College, Halifax, N. S.

'02. Harle Oren Cummins, III., is the author of a short humorous sketch under "Walnuts and Wine," of the current number of Lippincott's.

'03. George W. Bateman, II., who started to work with the Illinois Steel Co., in Chicago, is now with the Sullivan Machine Co., in Claremont, N. H.

"The Tech" \$1.00 a Year.

The subscription price of THE TECH for the ensuing year (30 issues) is only \$1.00. It has been placed at this extremely low figure in order that the paper may be within the means of every student, and so do its share towards furthering the growing tendency toward mutual interest, an college spirit. We also hope it is within the means of the Alumni and that they will keep informed of the Institute life through the THE TECH.

Tennis Tournament.

Entries for the Fall Tennis Tournament to be held at Jarvis Field, Cambridge, will be received at the "Cage" until 4 P.M. Friday, Oct. 16, and *not later*. Entrance fee for singles, fifty cents; for doubles, seventy-five cents, payable at time entrance is made. The first round must be played *early* during the week of Oct. 19. Drawings will be posted Saturday, Oct. 17. Leave entries at the "Cage" for R. Hazeltine.



Once more THE LOUNGER takes his typewriter (neuter gender) in his lap and proceeds to spread over the immaculate parchment the drop of ink which makes millions think. Once more the roulette of the Tech man has spun round and stopped over the space marked "Work." Once more the Institute is infested with the usual quota of freshmen. To these, his *protégés*, THE LOUNGER extends his right hand. It will be hard for the average freshman to realize that he is no longer a senior of the Centreville High School, and chairman of the Committee to Select a Class Flower. If he has carefully perused the tabular views, the general bulletin, the subject list, the roll slips, and all the other registration truck he probably knows what a great and wonderful thing Tech is. There is much, however, that cannot be learned from the official literature, and it is on that account that THE LOUNGER unlocks with the key of Generosity the treasury of his wide experience and with a lavish hand showers upon the fortunate Freshmen the following nuggets :

There are six marks given on the five weeks' reports. They are C, P, L, F, FF, and D, and signify as follows :

C — C me at once.

P — Phriend, you have done noble.

L — Let me tutor you. \$2.00 per lesson.

F — Fine. Keep it up.

FF — Extra Fine. You kept it up.

D — Do not hurry. Rome was not built in a Day.

The teaching machinery is made up of two elements, professors and instructors. The professors are a small body of men entirely surrounded by knowledge. In some cases, this is bounded on the North by a piece of chalk, on the East by a blackboard, on the South by a text-book he wrote himself, and on the West by an idea he got once. The instructors are divided into two classes — those that do and those that don't.

Freehand Drawing is a Freshman dinner at the Adams House. All courses. \$2.00 per plate.

Differential Calculus is the science which treats of formulas and little bits of things we don't know anything about.

"Hello," said the Old Tech Man as THE LOUNGER entered. "Sit," added he laconically.

So THE LOUNGER arranged his carcass artistically in the huge Morris Chair and lighted his pipe.

"How's Tech?" asked the Old Tech Man, and without waiting, offered his own answer. "It isn't what it used to be. You fellows don't have any good times any more. You call it a glorious rough house when you string a little flag across to the Brunswick, like a pack of kids, or when somebody rattles the door of Charlie Cross's lecture room."

THE LOUNGER smoked and waited. He knew the Old Tech Man.

"I remember the time," continued he, reminiscingly, "when we drew lots to see who should grease the bottom step in the Walker Building. The lot fell to me. I did it. At the end of the physics lecture they came down the steps lickety-split, and every man jack of them when he reached that step went sprawling."

"Was any one hurt?" asked THE LOUNGER.

"Nature has been kind to us," he added irrelevantly. "She has a way of making us fall more resiliently than harmfully."

In the ruminative silence which followed, the Old Tech Man's memory bore the following fruit :

"And speaking of falls, I remember the time when Jones gave Professor X. a fall that I'll bet he's never forgotten. Jones was a wag, anyway. He was up in the drawing room, drawing, and didn't want to be interrupted, when Professor X. came up to him and said: 'Well, Jones, what are you wasting your time on now?'

"It's a pretty hard problem," said Jones. "You see I have a pump here in the basement of this building which pumps water into this tank on the roof. I want to get up some scheme so that when the tank is full, the pump will stop automatically."

"Ah, I see," said the Professor, "and what's your scheme?"

"Well," said Jones quickly, "I've got this eccentric here connected with a lever here, and another lever here which works a string. That closes the circuit and rings a bell in Chelsea, and a man comes over and stops the pump."

"Going so soon?" asked the Old Tech Man. "Come again."

"Sure," said THE LOUNGER.

There was a young man in Port Said,
Who wanted to kiss a fair maid;
But the kiss missed the miss
And the miss missed the kiss,
Because the young man was afraid.

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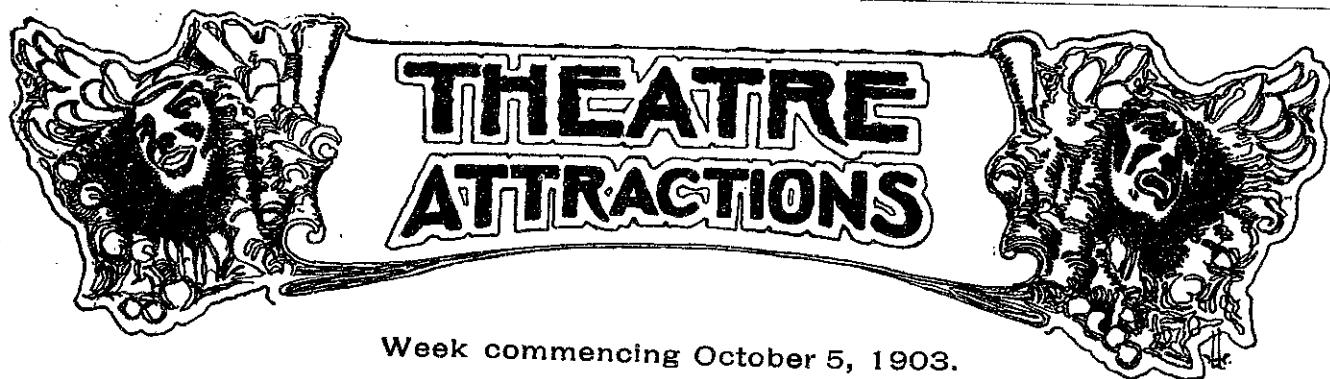
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Week commencing October 5, 1903.

Tremont Theatre. — The "Yankee Consul" continues to draw large and appreciative audiences. The music is of a higher class than is generally expected in modern musical productions.

Majestic Theatre. — Mr. Kirke La Shelle presents Owen Wister's fascinating story of the Wild West, "The Virginian." Rarely has a more lovable and manly character been made the central figure of a play.

Colonial Theatre. — Limited engagement of Jerome Sykes in "The Billionaire." Original Daly cast and production as seen in New York last season.

Hollis Street Theatre. — Miss Julia Marlowe in "Fools of Nature" will continue her engagement

for two more weeks. Miss Marlowe enacts her rôle with her customary ability and personal charm.

Globe Theatre. — Miss Henrietta Crosman, greatly admired in Boston because of her brilliant stage work, will appear for one week as Rosalind in "As You Like It."

Park Theatre. — "Vivian's Papas" will start upon the second and last week of its engagement here. Next week, Annie Russell in "Mice and Men."

Boston Theatre. — "Quincy Adams Sawyer" will enter on its second phenomenal week. Laughter reigns supreme throughout the play.

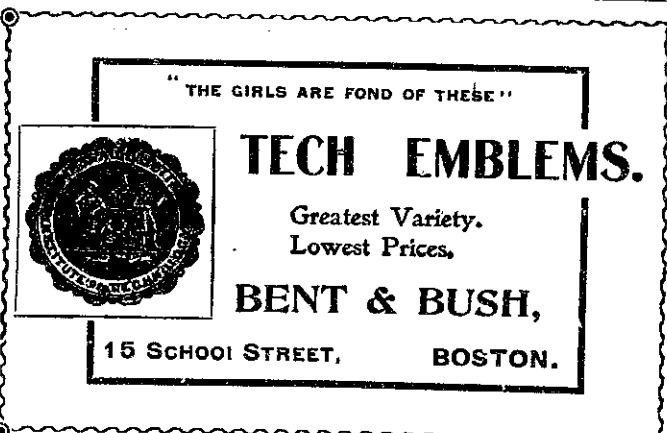
Castle Square Theatre. — "What Happened to Jones," is being presented by the regular company this week. Next week, "Lovers Lane."

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